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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/806,758	08/20/2002	Malte Neuss	THIE.0009	4917
75	90 01/29/2004		EXAM	INER
Reed Smith Hazel & Thomas			STEWART, ALVIN J	
Suite 1400				
3110 Fairview Park Drive			ART UNIT	PAPER NUMBER
Falls Church, VA 22042			3738	14
			DATE MAILED: 01/29/2004	•

Please find below and/or attached an Office communication concerning this application or proceeding.

		NK			
	Application No.	Applicant(s)			
i ·	09/806,758	NEUSS ET AL.			
Office Action Summary	Examiner	Art Unit			
	Alvin J Stewart	3738			
The MAILING DATE of this communical Period for Reply	tion appears on the cover shet	with the correspondence address			
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA - Extensions of time may be available under the provisions of 3 after SIX (6) MONTHS from the mailing date of this communic - If the period for reply specified above is less than thirty (30) decomposed to the provision of the period for reply is specified above, the maximum statuted in the period for reply within the set or extended period for reply will, any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b). Status	TION. 7 CFR 1.136(a). In no event, however, may sation. ays, a reply within the statutory minimum of try period will apply and will expire SIX (6) Min by statute, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
1) Responsive to communication(s) filed of	on <u>20 August 2002</u> .				
2a) This action is FINAL . 2b)	★ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ⊠ Claim(s) <u>25-44</u> is/are pending in the ap 4a) Of the above claim(s) is/are 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>25-44</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction	withdrawn from consideration.				
Application Papers	m unazor oloollon toquilonioni.				
9)⊠ The specification is objected to by the Examiner.					
10)⊠ The drawing(s) filed on <u>20 August 2002</u>					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. §§ 119 and 120 12) ☐ Acknowledgment is made of a claim fo	r foreign priority under 35 U.S.C	C. § 119(a)-(d) or (f).			
a) All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of application from the Internationa * See the attached detailed Office action for since a specific reference was included in 37 CFR 1.78. a) The translation of the foreign languates. 14) Acknowledgment is made of a claim for reference was included in the first senter.	cuments have been received in the priority documents have be I Bureau (PCT Rule 17.2(a)). for a list of the certified copies n domestic priority under 35 U.S. In the first sentence of the speci- lage provisional application has domestic priority under 35 U.S.	en received in this National Stage ot received. C. § 119(e) (to a provisional application) fication or in an Application Data Sheet. s been received. C. §§ 120 and/or 121 since a specific			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO 3) Information Disclosure Statement(s) (PTO-1449) Paper	-948) 5) Notice (w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)			

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Specification

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: the 10 to 50% smaller than the width of a strait bar is not shown in the specification.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 26, 29, and 31 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

A broad range or limitation together with a narrow range or limitation that falls within the broad range or limitation (in the same claim) is considered indefinite, since the resulting claim does not clearly set forth the metes and bounds of the patent protection desired. Note the explanation given by the Board of Patent Appeals and Interferences in *Ex parte Wu*, 10 USPQ2d 2031, 2033 (Bd. Pat. App. & Inter. 1989), as to where broad language is followed by "such as" and then narrow language. The Board stated that this can render a claim indefinite by raising a question or doubt as to whether the feature introduced by such language is (a) merely exemplary of the remainder of the claim, and therefore not required, or (b) a required feature of the claims. Note also, for example, the decisions of *Ex parte Steigewald*, 131 USPQ 74 (Bd. App. 1961), *Ex parte Hall*, 83 USPQ 38 (Bd. App. 1948); and *Ex parte Hasche*, 86 USPQ 481

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(Bd. App. 1949). In the present instance, claim 26 recites the broad recitation 10 to 50%, and the claim also recites preferably 30% which is the narrower statement of the range/limitation.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 25-28, and 33-35 are rejected under 35 U.S.C. 102(e) as being anticipated by Cox US Patent 6,461,380 B1.

Cox discloses a stent comprising a plurality of coupled flexible zigzag annular elements (72) connected to each other by a plurality of bending elements having a bow shaped connector bars (78). Figure 3, shows bars having a width that is about 20% smaller than the width of a strait formed connector bar of the annular elements.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 29 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cox US Patent 6,461,380 B1 in view of Klein US Patent 6,602,281 B1.

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Cox discloses the invention substantially as claimed. However, Cox does not disclose connector bars having a width greater on the proximal and distal ends than in the middle of the stent.

Klein teaches connector bars (see attachment) capable of having a width greater on the proximal and distal ends than in the middle of the stent for the purpose of increasing the radial stiffness at the ends of the stent to minimize flaring (see Figs. 2, 12 and 13 and col. 12, lines 55-67).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the Cox reference with the no flaring stent of Klein in order to increase the radial stiffness at the ends of the stent to minimize flaring.

Claims 31, 32, 36 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cox US Patent 6,461,380 B1 in view of Richter US Patent 5,807,404.

Cox discloses the invention substantially as claimed. However, Cox does not disclose a width of bow bars in the middle section is greater than on the proximal and distal ends and does not disclose a stent made of self-expandable nickel-titanium.

Richter teaches a self-expandable stent (see col. 5, lines 42-47) having connecting bars having a width smaller at the proximal and distal ends than in the middle of the stent for the purpose of correcting undesired effects at singular points and provide for a better fit to a vessel (see col. 8, lines 1-30).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the material property and the bars width at the proximal and distal

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ends of the Cox reference with the material property and width of the Richter reference in order to correct undesired effects at singular points and provide for a better fit to a vessel.

Claims 38-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cox US

Patent 6,461,380 B1 in view of Wright et al US Patent 6,273,913 B1.

Cox discloses the invention substantially as claimed. However, Cox does not disclose resorbable material, polyester, drugs, and radioactive materials.

Wright et al teaches a stent having a plurality of coatings (e.g. coatings having resorbable materials (see col. 7, lines 2-8), polyester (see col. 6, lines 28-31), drugs (see col. 6, lines 25-28), and radioactive materials (see col. 5, line 19)) for the purpose of preventing inflammation and the proliferation of smooth muscle cells by providing a controlled diffusion of drugs from the stent to the artery wall (see col. 3, lines 48-52 and col. 5, lines 53-57).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the Cox stent with the plurality of coatings of the Wright et al reference in order to prevent the inflammation and the proliferation of smooth muscle cells by providing a controlled diffusion of drugs from the stent to the artery wall.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alvin J Stewart whose telephone number is 703-305-0277. The examiner can normally be reached on Monday-Friday 7:00AM-5:30PM(1 Friday B-week off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Corrine McDermott can be reached on 703-308-2111. The fax phone number for the organization where this application or proceeding is assigned is 703-305-3590.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0858.

Alvir Stewart January 26, 2004. Art Unit: 3738

ATTACHMENT:

